| Inde | ex of Claims |  |
|------|--------------|--|
|      |              |  |

| Application No. | Applicant(s) |  |  |  |  |  |  |
|-----------------|--------------|--|--|--|--|--|--|
| 10/652,484      | ASADA ET AL. |  |  |  |  |  |  |
| Examiner        | Art Unit     |  |  |  |  |  |  |
| Arnold Castro   | 3747         |  |  |  |  |  |  |

| √  | Rejected |
|----|----------|
| II | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| ſ | N | Non-Elected  |
|---|---|--------------|
|   | I | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

Date

| Claim | m Date   |  |             | Cla      | aim      | Date     |                       |               |               | Cla             |          |            |          |
|-------|--|--|-------------|----------|----------|----------|-----------------------|---------------|---------------|-----------------|----------|------------|----------|
| Final | , 2809   |  |             | Final    | Original |          |                       |               |               |                 | Final    | Original   |          |
| 1     | V  |  | +           |          | 51       | $\dashv$ |                       | -1-1-         | 1             | $\dashv$        |          | 101        |          |
| 2     | 0  |  |             |          | 52       |          |                       |               |               |                 |          | 102        |          |
| 3     |  |  |             |          | 53       |          |                       | $\perp \perp$ |               | _               |          | 103        |          |
| 4     | +  |  | $\bot$      |          | 54       |          | $\sqcup \!\!\! \perp$ | $\perp \perp$ |               |                 |          | 104        |          |
| 5     | +  |  | $\perp$     |          | 55       |          |                       | -             |               |                 |          | 105        |          |
| 6     | 11   |  | $\perp$     | -        | 56       |          | <del></del>           | +-+           |               |                 |          | 106        |          |
| 8     | -  |  |             |          | 57<br>58 |          | ╁┷┼                   | +             |               |                 |          | 107        |          |
| 9     | 0  | +++  | +           | -        | 59       | +        |                       | ++            | +             |                 |          | 108<br>109 | —        |
| 10    | 0  | ++++   | +           |          | 60       |          |                       |               | +             |                 |          | 110        |          |
| 11    |  |  | +           | -        | 61       |          | $\vdash$              | + +           | 11            | $\dashv \dashv$ | -        | 111        | $\dashv$ |
| 12    |  |  |             |          | 62       |          |                       | 1 1           | 11            | $\dashv \dashv$ |          | 112        | $\neg$   |
| 13    |  |  | +           |          | 63       |          |                       | 11            | 11            | $\dashv$        |          | 113        |          |
| 14    |  |  |             |          | 64       |          |                       |               | 11            | $\Box$          |          | 114        |          |
| 15    |  |  |             |          | 65       |          |                       |               |               |                 |          | 115        |          |
| 16    | 0  |  |             | . L      | 66       |          |                       |               |               |                 |          | 116        |          |
| 17    | Z  |  |             |          | 67       |          |                       |               | $\perp$       | $\perp$         |          | 117        |          |
| 18    | 44   | 1-1-1-1  |             |          | 68       |          | $\sqcup \!\!\! \perp$ | $\perp \perp$ | $\perp \perp$ |                 |          | 118        |          |
| 19    |  | $\Box$   | -           |          | 69       |          | $oxed{oxed}$          | ++            | $\perp$       | $\dashv$        |          | 119        | _        |
| 20    | 2_   | +++  |             |          | 70       | _        | - -                   | -  -          | +             |                 |          | 120        |          |
| 21    |  | <del>                                     </del> |             | -        | 71       | -        | $\vdash$              | ++            | +             |                 | ļ        | 121        |          |
| 23    | +++  | +++  | +           | -        | 72<br>73 |          |                       | ++            | +             |                 | $\vdash$ | 122<br>123 |          |
| 23    | ++-  | +++  | +++         |          | 74       | -        |                       | ++            | +             | -               |          | 123        |          |
| 25    | +  |  | +           |          | 75       | +        | $\vdash$              | ╁┼            | +             |                 |          | 125        |          |
| 26    |  | <del>!      </del>                               | ++          |          | 76       |          |                       | ++            | ++            | +               |          | 126        |          |
| 27    | 1-1-1-   | 1-1-1-1  |             |          | 77       | 1        |                       | ++            | 11            | +               |          | 127        | $\dashv$ |
| 28    |  |  |             |          | 78       |          |                       | † †           | 11            | $\dashv \dashv$ |          | 128        | $\dashv$ |
| 29    |  |  |             |          | 79       |          |                       | $\top$        | 11            | $\Box$          |          | 129        | $\neg$   |
| 30    |  |  |             |          | 80       |          |                       |               |               |                 |          | 130        |          |
| 31    |  |  |             | '        | 81       |          |                       |               |               |                 |          | 131        |          |
| 32    |  |  | $\bot$      |          | 82       |          | $\sqcup \sqcup$       |               |               |                 |          | 132        |          |
| 33    |  |  |             | <u></u>  | 83       |          |                       |               | $\perp$       |                 |          | 133        | $\perp$  |
| 34    | 1  | <del>                                     </del> | +           | <u> </u> | 84       | _        | <u> </u>              | 4-4-          | 4-4           |                 |          | 134        |          |
| 35    |  | +++  |             | <u> </u> | 85       |          |                       |               |               |                 |          | 135        |          |
| 36    |  |  |             | <u> </u> | 86       |          | $\vdash$              | ++            | ++            | +               |          | 136        |          |
| 38    |  |  | +           | -        | 87<br>88 |          |                       |               | +-+           | +               | -        | 137<br>138 | $\dashv$ |
| 39    | <del>   </del>                                   | <del>                                     </del> | +           |          | 89       | +        |                       | ┼╌┼╴          | ┿             | +               |          | 139        | -        |
| 40    | ++-  | <del>                                     </del> | <del></del> | -        | 90       |          | <del></del>           | +             | ++            | +               |          | 140        |          |
| 41    |  |  | +           |          | 91       | -        |                       | +             | +             |                 |          | 141        | $\dashv$ |
| 42    |  |  |             |          | 92       | +        | $\vdash$              | ++            | + +           | $\dashv \dashv$ |          | 142        |          |
| 43    | <del>                                     </del> |  |             |          | 93       |          |                       | +             | +-+           | $\dashv$        |          | 143        | $\dashv$ |
| 44    |  |  |             |          | 94       |          |                       | 11            | +             | $\neg \Box$     |          | 144        | $\neg$   |
| 45    |  |  |             |          | 95       |          |                       |               | 11            |                 |          | 145        |          |
| 46    |  |  |             |          | 96       |          |                       |               |               |                 |          | 146        |          |
| 47    |  |  |             |          | 97       |          |                       |               |               |                 |          | 147        |          |
| 48    |  |  |             |          | 98       |          |                       |               |               |                 |          | 148        |          |
| 49    |  |  |             |          | 99       |          |                       | $\Box$        | $\coprod$     |                 |          | 149        |          |
| 50    |  |  | للل         | L        | 100      |          |                       |               |               |                 |          | 150        |          |

| Cialiti  |                          | ļ        | ,       | ,        |          | Par      | <del>-</del> | _        | _  |                 |
|----------|--------------------------|----------|---------|----------|----------|----------|--------------|----------|--|-----------------|
| Final    | Original                 |          |         |          |          |          |              |          |  |                 |
|          | 101                      | -        |         |          | $\vdash$ | T        | Г            |          |  |                 |
| ļ        | 102                      | -        |         | +-       | ╁        | ╁        | ┝            | H        | ╁  | $\vdash$        |
|          | 101<br>102<br>103        | $\vdash$ | ⊢       | $\vdash$ | ⊢        | ┢        | $\vdash$     |          | <del> </del>                                     | $\vdash$        |
|          | 103                      | -        | ⊢       | ⊢        | ⊢        | ┢        |              |          | <del>                                     </del> | -               |
| <u> </u> | 104<br>105               | -        |         |          | ⊨        |          |              |          | -  | $\vdash$        |
| <u></u>  | 103                      | <u> </u> |         | ├        | ⊨        |          | -            |          | ├  |                 |
| <u> </u> | 107                      | _        | -       | ├        | ├        | ┢        | ┝            | -        | ┢  | -1              |
| <u> </u> | 107                      |          | ├—      | ┢        | ┢        | -        | ⊢            | -        | -  | ⊢               |
| <u> </u> | 108                      |          | ├       | -        | ├        | ├        | <u> </u>     | -        | <u> </u>   | $\vdash$        |
|          | 109<br>110               |          | _       | ⊢        | <u> </u> | ⊢        | <u> </u>     | _        | <u> </u>   | Ш               |
|          | 110                      |          | _       | <u> </u> | <u> </u> | ├_       | <u> </u>     | <u> </u> | <u> </u>   |                 |
| <u> </u> | 111                      |          | _       | _        | <u> </u> | <u> </u> | <u> </u>     |          | <u> </u>   | Ш               |
|          | 111<br>112<br>113        |          | _       | _        | L        | _        | _            |          | L.   |                 |
|          | 113                      |          | ┖       | L        | ╙        | _        |              | _        | _  | Ш               |
|          | 114<br>115               |          | _       |          | _        |          | 匚            |          | <u></u>  |                 |
|          | 115                      | L        | <u></u> | L.       | _        |          | <u> </u>     | <u> </u> |  | Ш               |
|          | 116                      |          |         |          |          |          |              | 乚        | L  | L               |
|          | 117                      |          |         |          |          |          |              |          |  |                 |
|          | 118                      |          |         |          |          |          |              |          |  |                 |
|          | 119                      |          |         |          |          |          |              |          |  |                 |
|          | 119<br>120               |          |         |          |          |          |              |          |  |                 |
|          | 121<br>122<br>123        |          |         | Г        |          | Γ        |              |          |  |                 |
|          | 122                      |          |         |          |          |          |              |          |  | П               |
|          | 123                      |          |         |          |          | Г        |              |          | Г  |                 |
|          | 124<br>125<br>126        |          |         |          |          |          |              |          |  | П               |
|          | 125                      |          |         |          |          | Γ        |              | _        |  | П               |
|          | 126                      |          |         |          |          |          |              |          | Г  | П               |
|          | 127<br>128<br>129<br>130 |          |         |          |          |          |              |          |  | П               |
|          | 128                      |          |         |          |          |          | Г            |          |  |                 |
|          | 129                      |          | П       |          |          |          | Г            |          |  |                 |
|          | 130                      |          | Г       | Г        |          |          | Г            |          |  |                 |
|          | 131                      |          |         |          |          |          |              |          |  |                 |
|          | 132<br>133               |          |         |          |          |          |              | Г        |  |                 |
|          | 133                      |          |         |          |          |          |              |          |  |                 |
|          | 134<br>135               |          |         |          |          |          |              |          |  |                 |
|          | 135                      |          |         |          |          |          |              |          |  | П               |
|          | 136                      |          | _       |          |          | _        |              |          |  | Н               |
|          | 137<br>138<br>139        |          |         |          | <u> </u> |          |              | <u> </u> |  | М               |
|          | 138                      |          |         |          |          |          |              |          |  | H               |
|          | 139                      |          |         |          |          |          | -            |          | -  | Н               |
|          | 140                      | _        |         |          | -        |          |              |          | $\vdash$   | Н               |
|          | 141                      |          |         |          |          |          |              |          | $\vdash$   | $\vdash$        |
|          | 142                      | _        |         | <b> </b> | l        | $\vdash$ | -            | _        |  | $\vdash$        |
|          | 143                      |          |         | $\vdash$ | $\vdash$ |          |              |          | $\vdash$   | $\vdash \vdash$ |
|          | 144                      | _        |         |          |          |          |              | $\vdash$ | $\vdash$   | Н               |
| -        | 145                      |          |         |          |          |          |              | $\vdash$ | Η-   | $\vdash$        |
|          | 146                      | $\dashv$ |         | Н        | П        | $\vdash$ | $\vdash$     | _        | -  | $\vdash$        |
|          | 147                      |          | -       | $\vdash$ |          |          | -            |          |  | $\vdash$        |
|          | 148                      |          |         | H        | $\vdash$ | $\vdash$ | -            | $\dashv$ | $\vdash$   | $\vdash$        |
|          | 149                      |          |         | $\vdash$ | -        | $\dashv$ | $\dashv$     | $\vdash$ | -  | Н               |
|          | 150                      |          |         | $\vdash$ | —        | $\dashv$ | -            | $\dashv$ | <del></del>                                      | $\vdash$        |
|          | .50                      | _        |         | Ll       |          | ш        |              | ш        | Ц  |                 |